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Remarks

The office action of December 16, 2002, has been carefully reviewed. This paper is

responsive thereto.

The title has been amended per the Examiner's request.

The specification has been amended to clarify the language used to address the present

invention.

Claims 17-24 have been amended to comport with the specification. New claims 25-27

have been added.

No new matter has been entered.

The Examiner objects to the incorporation by reference of pending applications in the

present application. Applicants respectfully submitted that, in accordance with in MPEP § 608.01

(p), Applicants have properly incorporated by reference the pending applications. Applicants

respectfully request the examiner to clarify which incorporation by reference is improper.

Claims 19-20 are rejected under 35 USC § 112. Applicants have amended claims 19 and

20 to be dependent on claims 17 to address this rejection.

Claims 1-24 stand rejected under 35 USC § 102 (e) as being anticipated by U.S. Patent

Number 626-2719 to Bi et al. Applicants respectfully traverse.

Claims 1, inter alia, recites:

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Displaying a user interface having a plurality of soft buttons \checkmark

in response to the predetermined input, the plurality of soft buttons

providing selectable functionality of a two-button mouse-type \(\extstyle \)

computer input device."

Bi et al. shows a display area 1200 and a hot icon area 1202. See col. 40 lines 39 through

43. The icon referenced by the examiner, icon 1232 showing the conversion between a right

mouse button function and a left mouse button function, is only disclosed to be in hot icon area

1202. This icon is always present. See Figure 36 of Bi et al. There is no indication that icon 1232

is displayed in response to the predetermined input. Accordingly, as Bi et al. fails to disclose the

icon 1232 being displayed in response to a predetermined user input as claimed, Bi et al. cannot

anticipate claim 1.

As claims 9 and 17 include similar recitations, these claims are allowable over Bi et al. as

well.

Claims 20-23 stand rejected under 35 USC § 103 (a) as being unpatentable over Bi et al.

Applicants respectfully traverse.

Applicants submit that the independent claims 17 from which claims 20-23 dependent is

allowable over Bi et al. As the examiner has not addressed to be elements missing from Bi et al.,

Applicants submit that the dependent claims 20-23 (as well as claims 4-7 and 12-15) are

allowable for the same reasons.

If the examiner has any questions, the examiner is invited to contact the undersigned to further prosecution.

Respectfully submitted,

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Marked Up Version of Amendment Showing Changes Made

In the Abstract:

The abstract has been replaced with the following:

A system and method for emulating the functional behavior of a two-button mouse-type

computer input device is discloseddescribed. A predetermined input generated by digitizing pen

and a digitizing writing surface is received, and a user interface having a plurality of soft buttons

is displayed. The plurality of soft buttons provides selectable functionality of a two-button

mouse-type computer input device. Preferably, the plurality of soft buttons includes a right-

button function, a shift function, a control function, an alternate function and a bull's-eye

function. --.

In the Specification:

The paragraph spanning page 1, line 3, through page 2, line 16, has been replaced with

the following paragraph.

The present application claims priority to U.S. Provisional Patent Application Serial No.

60/247,843, entitled Mouse Input Panel And User Interface, filed on November 10, 2000, which

is hereby incorporated by reference as to its entirety. The present application is related to U.S.

Provisional Patent Application Serial No. 60/247,182, entitled Method and Apparatus For

Improving the Appearance of Digitally Represented Handwriting, filed on November 10, 2000;

to U.S. Provisional Patent Application Serial No. 60/247,841, entitled Highlevel Active Pen Matrix, and filed on November 10, 2000; to U.S. Provisional Patent Application Serial No. 60/247,973, entitled Selection Handles in Editing Electronic Documents, and filed on November 10, 2000; to U.S. Provisional Patent Application Serial No. 60/247,842, entitled Insertion Point Bungee Space Tool, and filed on November 10, 2000; to U.S. Patent Application Serial No. 09/768,171 (Atty-docket No. 3797.00083), entitled Selection Handles In Editing Documents, and filed January 24, 2001; to U.S. Provisional Patent Application Serial No. 60/247,844, entitled Simulating Gestures of a Mouse Using a Stylus and Providing Feedback Thereto, and filed on November 10, 2000; to U.S. Provisional Patent Application Serial No. 60/247,400, entitled System and Method For Accepting Disparate Types Of User Input, and filed on November 10, 2000; to U.S. Provisional Patent Application Serial No. 60/247,972, entitled In Air Gestures, and filed on November 10, 2000; to U.S. Patent Application Serial No. 09/759,202(Atty Docket No. 3797.00090), entitled In-Air Gestures For Electromagnetic Coordinate Digitizers, and filed January 15, 2001; to U.S. Provisional Patent Application Serial No. 60/247,831, entitled Mouse Input Panel Windows Class List, and filed on November 10, 2000; to U.S. Patent Application Serial No. 09/801,880(Atty Docket No. 3797,00091), entitled Mouse Input Panel Windows Class List, and filed March 9, 2001; to U.S. Provisional Patent Application Serial No. 60/247,843, entitled Mouse Input Panel and User Interface, and filed on November 10, 2000; to U.S. Provisional Patent Application Serial No. 60/247,479, entitled System and Method For Inserting Implicit Page Breaks, and filed on November 10, 2000; to U.S. Patent Application Serial No.

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09/736,170(Atty docket No. 3797.00086), entitled High Level Active Pen Matrix, and filed on

December 15, 2000; to U.S. Patent Application Serial No. 09/741,107, entitled Mode

Hinting/Switching, and filed on December 21, 2000; to U.S. Provisional Patent Application

Serial No. 60/247,847, entitled Tablet Computer and its Features, and filed on November 10,

2000; and to U.S. Patent Application Serial No. 09/750,288, entitled Anchoring, Rendering,

Reflow & Transformations, filed December 29, 2000, each of which is incorporated by reference

herein as to their entireties. --.

The paragraph at page 5, lines 1-7, has been replaced with the following:

Computers that are configured without traditional keyboard and mouse input devices and

that have relatively large displays are sometimes referred to as tablet PCs. More generically,

tablet Tablet PCs belong to the group of stylus-based computing systems. These computing

systems are typically configured so that a digitizer is combined with or overlaid upon the display

of the tablet PC. The digitizer senses the coordinates of a pen tip as the pen is moved in contact

with the display surface. When electromagnetic displays and pens are used, the tablet Pestylus-

based computing system can sense proximity of the pen to the display in addition to sensing just

contact between the pen and the display.

The paragraph at page 6, lines 3-17, has been replaced with the following:

The present invention also provides a tablet PC having a digitizing writing surface that

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generates a predetermined output in response to, for example, a predetermined in-air gesture

made with a digitizing pen, and a display that displays a user interface having a plurality of soft

buttons in response to the predetermined output. The plurality of soft buttons provides selectable

functionality of a two-button mouse-type computer input device. Preferably, the plurality of soft

buttons includes a right-button function, a shift function, a control function, an alternate function

and a bull's-eye function. The digitizing writing surface receives a user selection of at least one

of the plurality of soft buttons, and the user interface is hidden from view on the display when the

user selection of a selected soft button is received. When the digitizing display receives a user

selection for the bull's-eye function; the tablet Pestylus-based computing system sends a right-

button event to an application displayed below the user interface on the display in response to the

user selection for the bull's-eye function. An inactivity timer is started when the user interface is

displayed on the display, and the user interface is hidden from view on the display when a

predetermined amount of time elapses without receiving a user selection of at least one of the

plurality of soft buttons.

The paragraphs on page 7, lines 2-6, have been replaced with the following:

- Aspects of the The present invention is are illustrated by way of example and not

limitation in the accompanying figures in which like reference numerals indicate similar elements

and in which:

Figure 1 shows a schematic diagram of a conventional general-purpose digital computing

environment that can be used for implementing various aspects of the invention; --.

The paragraphs on page 7, lines 9-17, have been replaced with the following:

Figure 3 shows an exemplary user interface (UI) that can be used for emulating the

functional behavior of a two-button mouse-type computer input device according to aspects of

the present invention;

Figure 4 is a functional block diagram showing the functional relationship of an in-air

gesture recognizer according to aspects of the present invention with a pen digitizer and an

application program; and

Figure 5 shows a flow diagram for a process for detecting an in-air gesture and emulating

the functional behavior of a two-button mouse-type computer input device according to aspects

of the present invention.

The paragraph on page 11, lines 6-16, has been replaced by:

Figure 2 illustrates a tablet Pestylus-based computing system 201 that can be used in

accordance with various aspects of the present invention. Any or all of the features, subsystems,

and functions in the system of Figure 1 can be included in the computer of Figure 2. Stylus-based

computing system Tablet PC-201 includes a large display surface 202, e.g., a digitizing flat panel

display, preferably, a liquid crystal display (LCD) screen, on which a plurality of windows 203 is

displayed. Using stylus 204, a user can select, highlight, and write on the digitizing display area.

Examples of suitable digitizing display panels include electromagnetic pen digitizers, such as the

Mutoh or Wacom pen digitizers. Other types of pen digitizers, e.g., optical digitizers, may also be

used. Stylus-based computing system Tablet PC-201 interprets marks made using stylus 204 in

order to manipulate data, enter text, and execute conventional computer application tasks such as

spreadsheets, word processing programs, and the like.

The paragraph spanning pages 12, line 19, through page 13, line 6, has been replaced by:

The MIP of the present invention can be invoked, i.e., made to appear on the display of

the stylus-based computing system tablet-PC, in a number of different ways. One way is for a user

to press a button that represents the MIP on a toolbar visible on the display. This, however,

requires the user's hand to move away from the document or application to which the user's

attention is focused to locate and depress the button that invokes the UI element. Another

approach that has similar shortcomings is to use a hardware button on the housing of the stylus-

based computing systemtablet PC. The preferred alternative for invoking the MIP or other UI

elements, or for affecting any other system control or input, is the use of the gesture of the

present invention.

The paragraph spanning page 17, line 17, through page 18, line 7, has been replaced with

the following:

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Figure 5 shows a flow diagram 500 for a process for detecting an in-air gesture and

emulating the functional behavior of a two-button mouse-type computer input device according

to aspects of the present invention. The process begins at step 501. At step 502, it is determined

whether the pen is in proximity to and in the air above the digitizing writing surface. If not, the

process remains at step 502 until the pen is determined to be in proximity to and in the air above

the digitizing writing surface, at which time flow continues to step 503 where the coordinate

information stream generated by the in-air gesture of the pen is recorded in buffer 406 (Figure 4).

Flow continues to step 504, where it is determined whether the in-air pen movement has stopped.

If not, flow continues to step 503, where the recording of the coordinate information stream

generated by the in-air gesture of the pen continues in buffer 406. --.

The paragraph spanning page 18, line 20, through page 19, line 11, has been replaced

with the following:

While the present invention does not rely on complex in-air gestures for emulating the

functional behavior of a two-button mouse-type computer input device, other in-air gestures

other than spike movements can alternatively be utilized by aspects of the present invention. For

example, other suitable in-air gestures that can be used with the present invention include

circularly, triangularly, or rectangularly shaped motions, in addition to a saw tooth motion or a

reciprocating motion. Moreover, a UI menu or control window other than a mouse-type input

panel could be emulated by using an in-air gesture that is detected by aspects of the present

invention. Exemplary UI menus or control windows that could be controlled by in-air motions

detected by aspects of the present invention include a file management menu, an edit function

menu, and a formatting menu. Further still, an in-air gesture according to aspects of the present

invention can be used for generating specific keystrokes, such as a space, backspace and carriage

return, or user definable keystrokes and/or sequences of keystrokes.

In the claims:

The claims have been amended as follows:

17. (Amended) A tablet Pestylus-based computing system, comprising:

a digitizing writing surface generating a predetermined output; and

a display displaying a user interface having a plurality of soft buttons in response to the

predetermined output, the plurality of soft buttons providing selectable functionality of a two-

button mouse-type computer input device.

18. (Amended) The stylus-based computing systemtablet PC medium according to

claim 17, wherein the plurality of soft buttons includes a right-button function, a shift function, a

control function and an alternate function.

19. (Amended) The stylus-based computing systemtablet PC according to claim

917, wherein the digitizing writing surface receiving a user selection of at least one of the

plurality of soft buttons.

20. (Amended) The <u>stylus-based computing tablet PC accordingsystem according</u> to claim 19, wherein the user interface is hidden from view on the display when the user selection of a selected soft button is received.

- 21. (Amended) The <u>stylus-based computing systemtablet PC</u> according to claim 17, wherein the plurality of soft buttons includes a bull's-eye function.
- 22. (Amended) The <u>stylus-based computing systemtablet PC</u>-according to claim 21, wherein the digitizing display receives a user selection for the bull's-eye function; and

wherein the <u>stylus-based computing system</u>tablet PC-sends a right-button event to an application displayed below the user interface on the display in response to the user selection for the bull's-eye function.

23. (Amended) The <u>stylus-based computing systemtablet PC</u>-according to claim 17, further comprising an inactivity timer that is started when the user interface is displayed on the display, and

wherein the user interface is hidden from view on the display when a predetermined amount of time elapses without receiving a user selection of at least one of the plurality of soft buttons.

24. (Amended) The <u>stylus-based computing systemtablet PC</u>-according to claim 17, wherein the predetermined output generated by the digitizing writing surface is a

predetermined in-air gesture made with a digitizing pen.